Department of Environment and Conservation - Division of Water Pollution Control

# ANNUAL STORM WATER MONITORING REPORT

for Storm Water Discharges Associated with Industrial Activity under the

# TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

| | | | |
|---|---|---|---|
| Facility Name: | A&S Building Systems Div. NCI. Engineered Bldg. | TMSP Number: | TNR054256 |
| Contact Person: | David Byrd | Phone Number: | 865-425-2063 |
| This report is submitted for the following calendar year (e.g. 2007): | 2013 | Outfall Number: | 7 |
| List all TMSP sectors which apply to discharge from this outfall: | AAP | Sample Date: | 11-26-2013 |

**LOW CONCENTRATION WAIVER** (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.

Parameters:

**DIRECTIONS:** In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

| Parameter | Benchmark (mg/L) | Annual Sample Result (mg/L) | Parameter (continued) | Benchmark (mg/L) | Annual Sample Result (mg/L) |
|---|---|---|---|---|---|
| Aluminum, Total | 0.75 | < 0.20 | Magnesium, Total | 0.064 | |
| Ammonia | 4.0 | | Mercury, Total | 0.0024 | |
| Arsenic, Total | 0.15 | | Nickel, Total | 0.875 | |
| BOD, 5-Day | 30 | | Nitrate + Nitrite Nitrogen | 0.68 | 0.938 |
| Cadmium, Total | 0.0021 | | Oil and Grease | 15 | |
| Chromium, Total | 1.8 | | pH | 5.0-9.0 | |
| COD | 120 | | Phenols | 0.016 | |
| Copper, Total | 0.018 | | Phosphorus, Total (as P) | 2.0 | |
| Cyanide, Total | 0.022 | | Selenium, Total | 0.005 | |
| Fluoride | 1.8 | | Silver, Total | 0.0038 | |
| Iron, Total | 5.0 | 0.27 | Total Suspended Solids (TSS) | 150 | |
| Lead, Total | 0.156 | | Zinc, Total | 0.395 | 0.124 |

**CERTIFICATION AND SIGNATURE** Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| David Byrd | Plant Superintendent | David Byrd | 1-20-2014 |
|---|---|---|---|
| Printed Name | Official Title | Signature | Date |

## INSTRUCTIONS

1. The purpose of this form is to report storm water (SW) monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at http://tn.gov/environment/permits/strmh2o.shtml) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use ½ of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2007 calendar year is due by March 31, 2008.
2. If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division of Water Pollution Control's (the Division's) local Environmental Field Office (EFO) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).
3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

**Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records.**
**Submit the original completed and signed form to:**

**Enforcement and Compliance Section**
**Division of Water Pollution Control**
**6th Floor, L&C Annex, 401 Church Street**
**Nashville, TN 37243-1534**

ENTERED ON: MAY 5 2014
BY:

CN-1115 (Rev 12-06)

TN DEPT OF ENVIRONMENT AND CONSERVATION
FEB 11 2014
DIV OF WATER RESOURCES
RECEIVED

STANDARD LABORATORIES, INC.

Lab No. 1311-27006-1

Date Rec'd. 11/26/13

Date Sampled 11/26/13

Sampled by STANDARD LABORATORIES, INC.

1138 McGHEE LANE, SUITE 2
JACKSBORO, TN 37757
423-562-1934

A&S BUILDING SYSTEMS
P.O. BOX 53
CARYVILLE, TN 37714

STORMWATER
RAINFALL = 0.50 INCHES
EST FLOW: 214 GPM
OUTFALL #7-01
9:00 AM TKM
TYPE OF SAMPLE: WATER

| Parameter | Final Result | Units | Test Method | RRL | Date | Time | Tech |
|---|---|---|---|---|---|---|---|
| Aluminum (Al), Total | <0.20 | mg/l | 3111 D - 1999 | 0.20 | 12/13/13 | 12:18 | WJR |
| Iron (Fe), Total | 0.27 | mg/l | 3111 B - 1999 | 0.10 | 11/27/13 | 01:07 | WJR |
| Nitrate-Nitrite | 0.938 | mg/l | EPA 300.0 | 0.0310 | 12/13/13 | 08:45 | OSL |
| Zinc (Zn), Total | 0.124 | mg/l | EPA 200.8 | 0.00100 | 12/04/13 | 16:55 | OSL |



Respectfully Submitted Keith McDaniel

# YEAR 2013

**VISUAL EXAMINATION DATA RECORD – OUTFALL ____**

| | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |
|---|---|---|---|---|
| **Examiner(s) Initials** | DB | DB | DB | DB |
| **Date of Collection** | 2-26-13 | 6-5-13 | 8-31-13 | 11-1-13 |
| **Time of Rainfall or Snowmelt Start (AM / PM)** | 5:30 A.M. | 3:30 P.M. | 11:00 A.M. | 6:00 A.M. |
| **Time of Sample Collection (AM /PM)** | 6:15 A.M. | 4:15 P.M. | 11:45 A.M | 7:00 A.M |
| **Date of Examination** | 2-27-13 | 6-6-13 | 9-3-13 | 11-4-13 |
| **Time of Examination (AM / PM)** | 8:30 A.M. | 11:00 A.M | 8:00 A.M. | 8:00 A.M. |
| **Type of Examination – R=Rainfall, S=Snowmelt** | R | R | R | R |
| | | | | |
| **Examination Results:** | | | | |
| **Color** | 1 | 1 | 1 | 1 |
| **Odor** | 1 | 1 | 1 | 1 |
| **Clarity** | 1 | 1 | 1 | 1 |
| **Floating Solids** | 1 | 1 | 1 | 1 |
| **Settled Solids** | 2 | 2 | 2 | 2 |
| **Suspended Solids** | 1 | 1 | 1 | 1 |
| **Foam** | 1 | 1 | 1 | 1 |
| **Oil Sheen** | 1 | 1 | 1 | 1 |
| **Other obvious indicator(s) of pollution (use an *)** | | | | |

**RESULTS CODES:** 1 – NONE OBSERVABLE 2* – SMALL QUANTITY 3* – READILY OBSERVABLE 4* – SIGNIFICANT QUANTITY OBSERVABLE 5* – EXCESSIVE QUANTITY OBSERVABLE 6* – UNABLE TO COLLECT SAMPLE

*Explanation(s) requred: _____

_____

_____

Examiner(s) name: David Byrd _____

# STATE OF TENNESSEE

# NPDES PERMIT

## Tracking No. TNR054256

General NPDES Permit for

# STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY (TMSP)

Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street
6th Floor, L&C Annex
Nashville, Tennessee 37243-1534

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.):

Discharger: **A & S Building Systems L. P.**

is authorized to discharge: storm water associated with industrial activity

from a facility located at: **1880 Highway 116 in Caryville, Campbell County**

to receiving waters named: **Right Fork Coal Creek**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

Coverage under this general permit shall become effective on **September 18, 2009** and shall expire on **May 14, 2014.**

Notice of Coverage Issuance date: **September 18, 2009**

Paul E. Davis

Paul E. Davis, Director
Division of Water Pollution Control

Applicable Sector(s): **AA P**
TMSP Requirements and Sectors are located at **http://www.state.tn.us/environment/permits/strmh2o.shtml**

**STORMWATER INVENTORY ON YARD FOR 2013**

Equipment:

- 20 foot shear (covered with a plastic tarpaulin)
- Crated roll up overhead doors
- Mobil lift (Genie 4 wheel drive)
- John Deer tractor
- Grader blade
- Mower Deck
- Wood smoker on wheels
- 360 degree jib crane post and arm
- Trailers for loading product
- 4 solid waste dumpsters
- 2 cardboard recycling dumpsters
- 1 solid waste roll off
- 1 metal scrap roll off

Material:

- Painted steel (red & gray primer)
- Aluminum base trim
- Pre-painted panel and cold form material
- Galvanized steel angle
- Galvanized steel cable
- Pre-painted ridge vents
- Wood (oak and popular)
- Loaded trailers with complete buildings on them.
- Pre-hung steel doors in wood crates
- Cardboard trim boxes with trim inside (pre-painted and galvalume trim material)
- Downspouts and kick-outs (pre-painted and galvalume) in wood crates
- Unpainted structural steel angle, pipe and beams

A & S Building Systems conducts annual storm water discharge monitoring and submits the results to TDEC on outfall # 7 only. This is the only outfall we monitor because it is our major discharge source (36" tile). This represents a good general overall sample of our total storm water runoff from all our discharge tiles.

Summary of discharge sources:

A. Outfall # 7 (36" tile) discharges storm water from the following areas into the right fork of Coal Creek.

   1. A Ditch on the East Side of Hwy 116 is discharged from a tile under the hwy. To our property and flows into outfall # 7. The discharge from this source is primarily from residential areas across the road from the plant.

   2. Two valley gutters from the roof at the north end of the plant discharges into this outfall.

   3 The roof at the front of the N/E sidewall of the plant (30'X360').

   4. The warehouse roof, maintenance shop roof, compressor room roof, and the area around the paint tank.

   5. 700 feet in front of the plant on the West Side of Hwy. 116.

   6. Approximately ½ the areas at the North end of the plant to the property line. This includes the material storage shed, trim box storage area, part of the finished good trailer storage area, and all the product stored outside on the N/E corner of the property running parallel with Hwy. 116.

B. Outfall # 5 and # 6 (18" tile) and # 10 and # 11 (12" tiles) drains the office building grounds and parking lot into the right fork of Coal Creek.

C. Outfall # 1, # 2, # 3, # 4 (18" & 24" tiles) drains the plant roof valley gutters into the right fork of Coal Creek.

D. Outfall # 8 (24" tile) drains the North End of the property, which consists mainly of the driveway and trailer parking into the right fork of Coal Creek.

E. Outsell # 9 drains part of the roof and part of the front driveway to the main gate entering the property. The storm water from this discharge is drained into the ditch on Hwy. 116 running in front of Ridgewood School.

Revised 2-7-06 ((add outfalls # 10 & 11) reference part B.